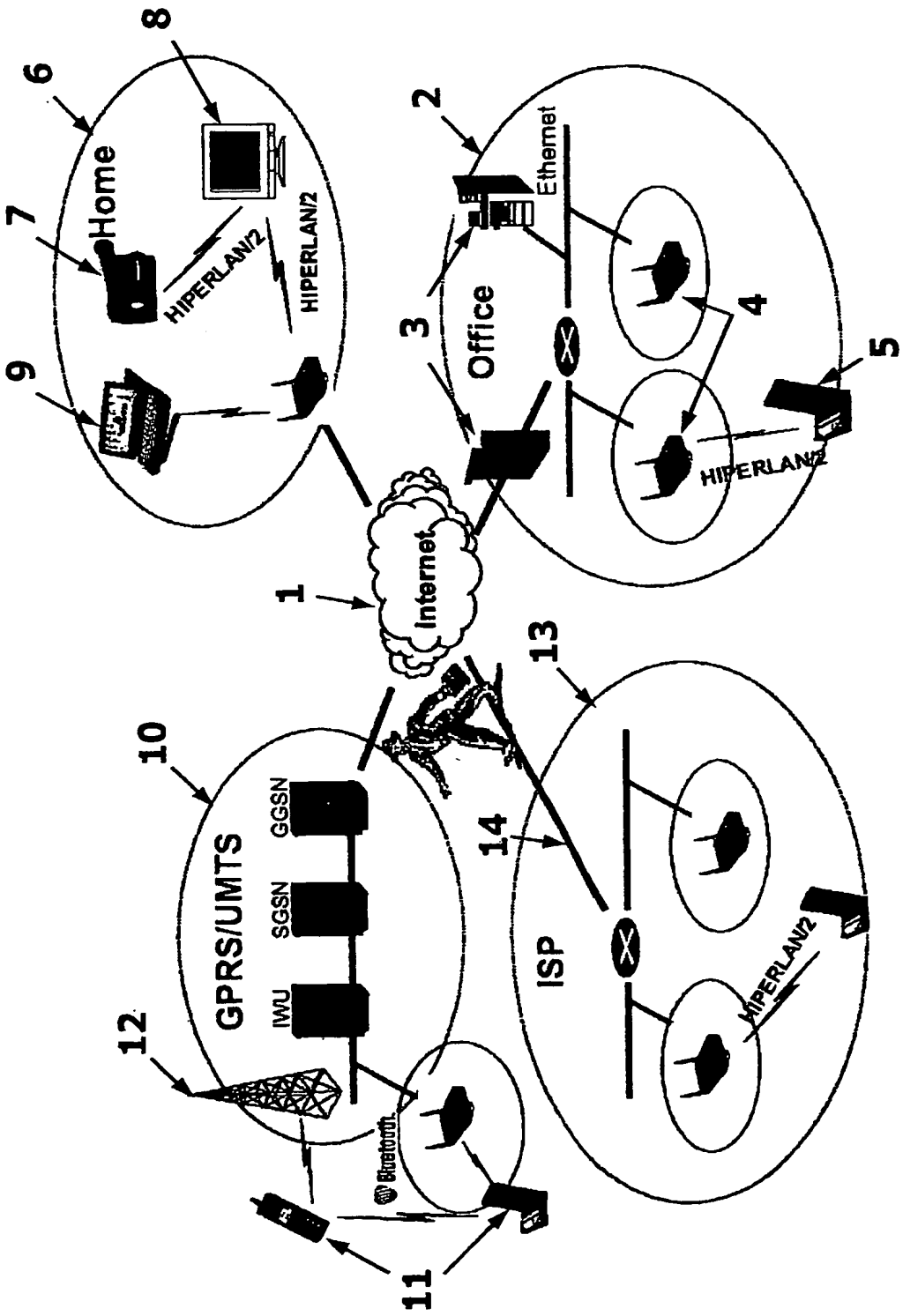
Home
HIPERLAN/2
HIPERLAN/2
Office
Ethernet
HIPERLAN/2
Internet
GPRS/UMTS
GGSN
SGSN
IWU
Bluetooth
ISP
HIPERLAN/2
1
2
3
4
5
6
7
8
9
10
11
12
13
14

Figure 1

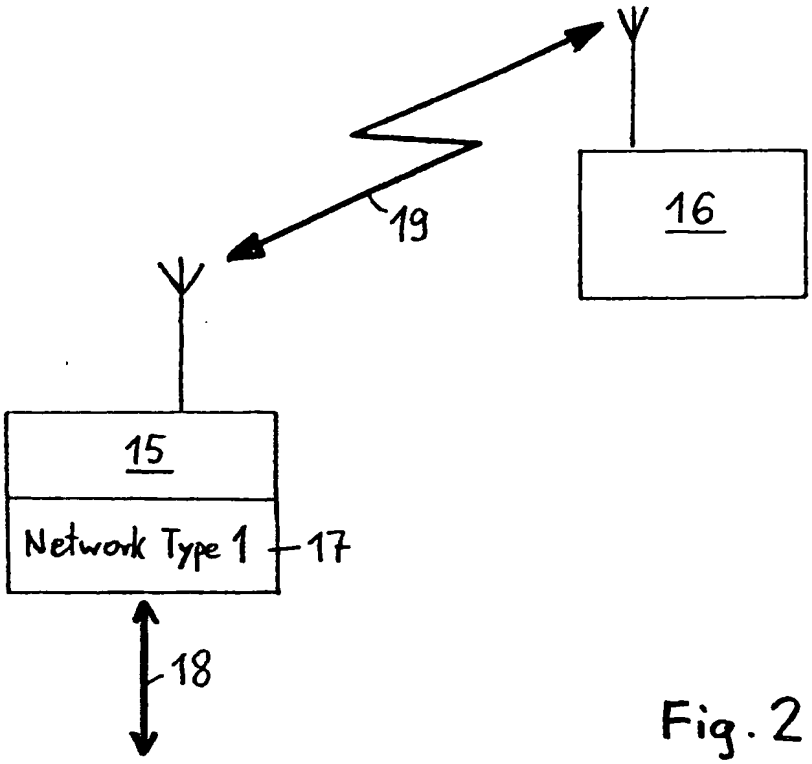

Fig. 2
Prior Art

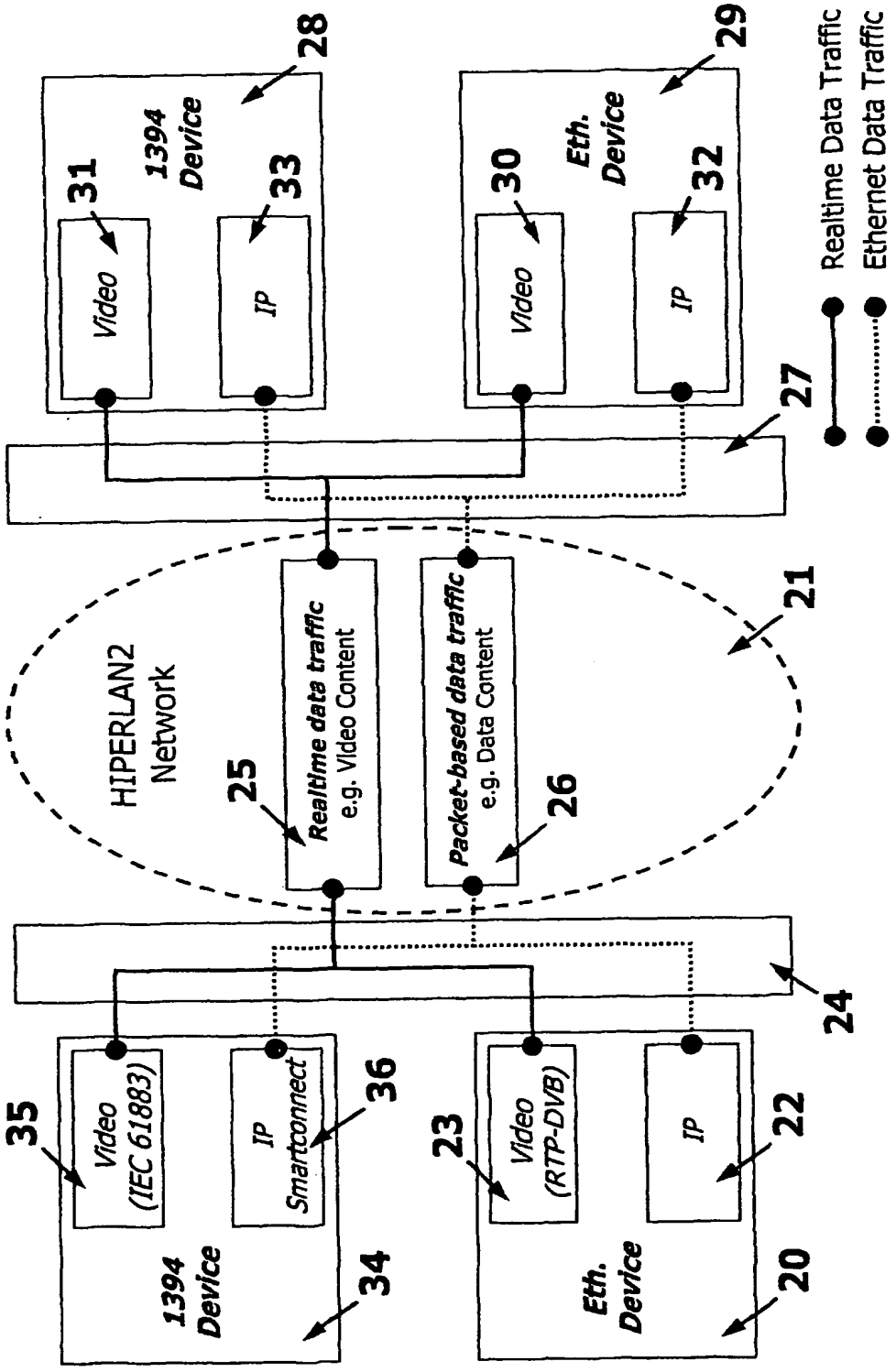
28
1394 Device
31
Video
33
IP
29
Eth. Device
30
Video
32
IP
27
Realtime Data Traffic
Ethernet Data Traffic
21
HIPERLAN2 Network
25
Realtime data traffic
e.g. Video Content
26
Packet-based data traffic
e.g. Data Content
24
35
Video (IEC 61883)
IP Smartconnect
36
1394 Device
34
23
Video (RTP-DVB)
IP
22
Eth. Device
20

Figure 3

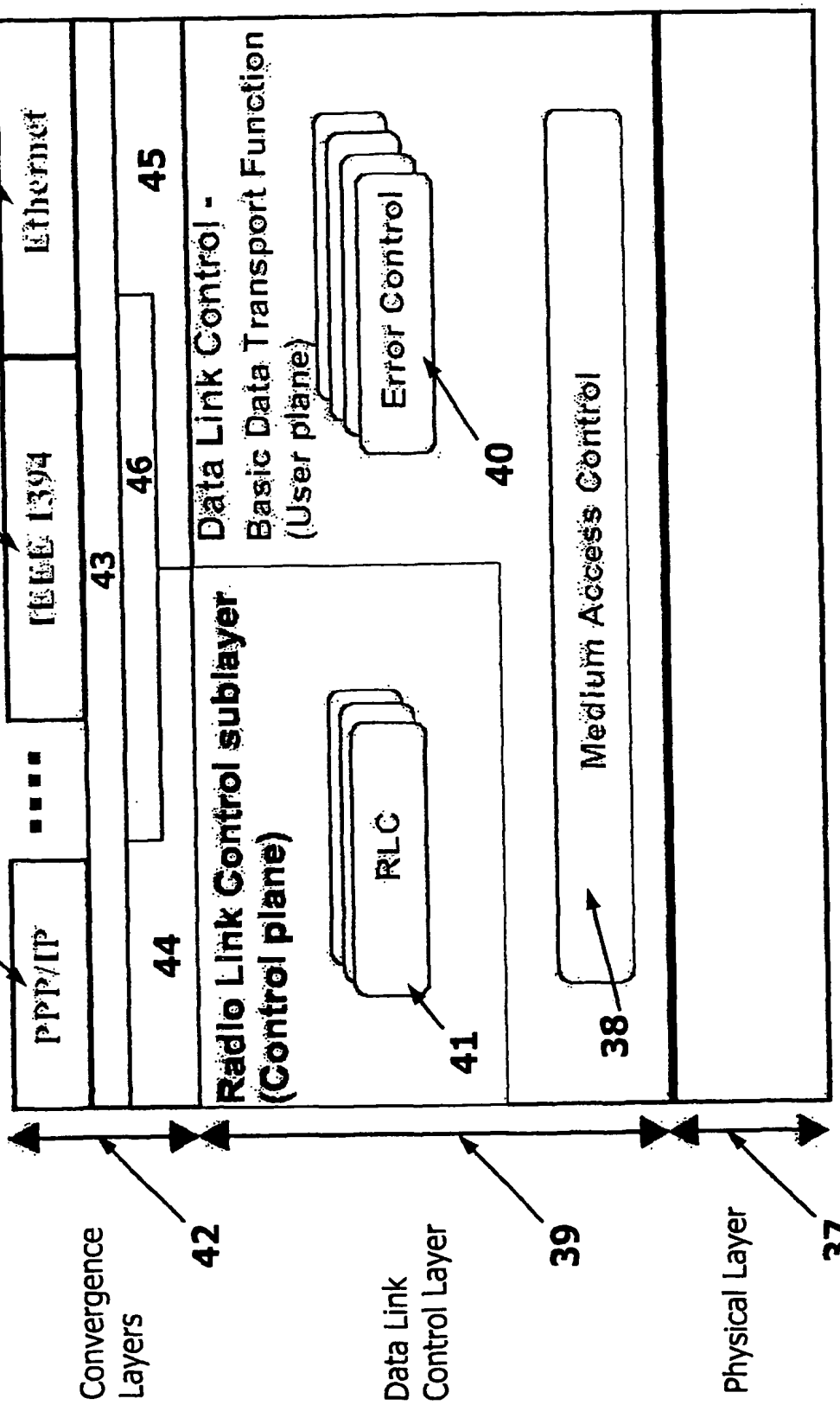
Convergence Layers
Data Link Control Layer
Physical Layer
42
39
37
47
PPP/IP
44
43
48
IEEE 1394
46
49
Ethernet
45
Radio Link Control sublayer (Control plane)
Data Link Control - Basic Data Transport Function (User plane)
RLC
41
Error Control
40
Medium Access Control
38

Figure 4

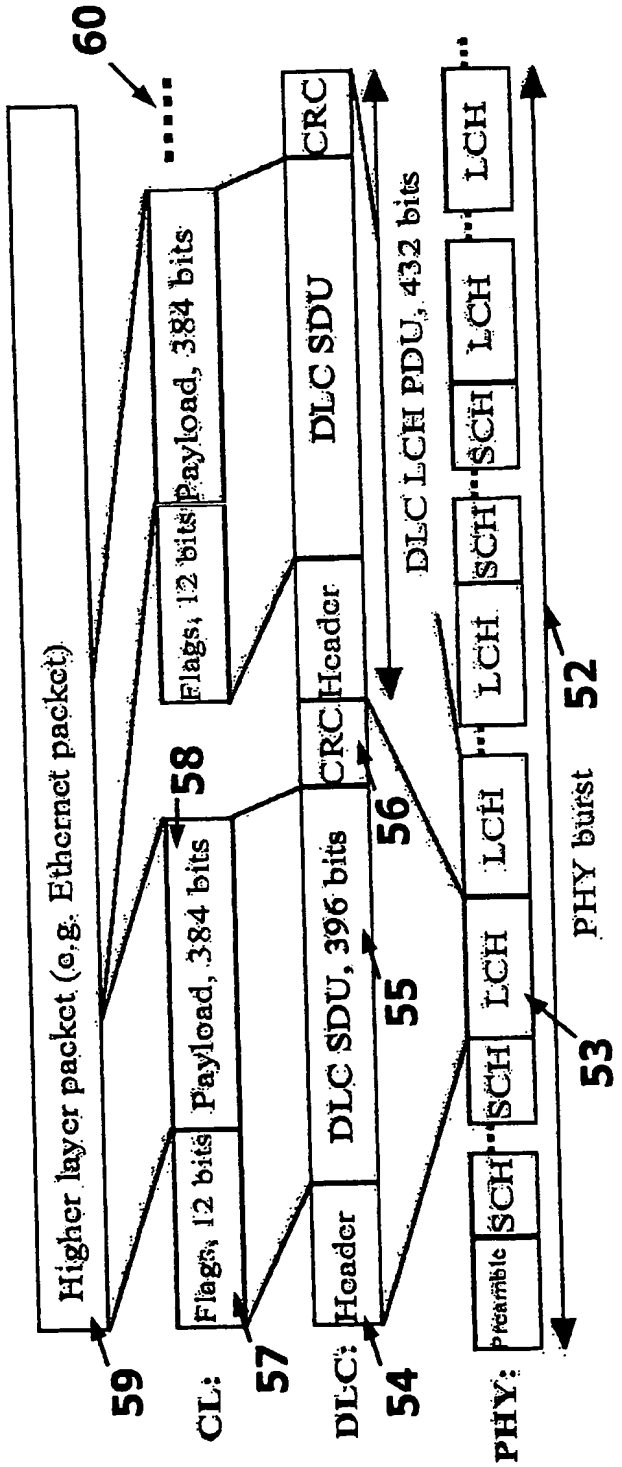
60
Higher layer packet (e.g. Ethernet packet)
Flags, 12 bits
Payload, 384 bits
58
Flags, 12 bits
Payload, 384 bits
CRC
DLC SDU
CRC
Header
DLC SDU, 396 bits
Header
DLC LCH PDU, 432 bits
LCH
SCH
LCH
SCH
LCH
SCH
LCH
SCH
LCH
Preamble
SCH
PHY burst
59
57
54
56
55
53
52
CL:
DLC:
PHY:

Figure 5